

**Specification of Competency Standards**  
**for the Automotive Industry**  
**Unit of Competency**

Functional Area - Vehicle Servicing

Title	Isolate and reinstate electric system of electric and hybrid vehicle
Code	108690L2
Range	This unit of competency is applicable in electric and hybrid vehicle servicing workshops. Practitioners should be able to isolate and reinstating electric system of electric and hybrid vehicle safely according to the instructions in the electric and hybrid vehicle manufacturer's service manual and the relevant requirements on environment, occupational safety and health regulations. They should also be able to handle potential hazards and conducting basic tests on components upon completion of work and providing written report.
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Isolate and reinstate electric system of electric and hybrid vehicle)</p> <ul style="list-style-type: none"> <li>• Understand the high voltage systems and components in electric and hybrid vehicle, such as: <ul style="list-style-type: none"> <li>○ Component with high voltage: <ul style="list-style-type: none"> <li>▪ Battery</li> <li>▪ Modules Component</li> <li>▪ Electric Motor</li> <li>▪ Hardware</li> </ul> </li> <li>○ Location of the high voltage components</li> </ul> </li> <li>• Isolate and reinstate an electric and hybrid vehicle according to the instructions in the manufacturer's service manual.</li> <li>• Know the testing equipment for high voltage component.</li> <li>• Understanding of the relevant legal requirements on road &amp; vehicle safety, and environment protection.</li> </ul> <p>2. Performance (Perform isolate and reinstate electric system of electric and hybrid vehicle)</p> <ul style="list-style-type: none"> <li>• According to the instructions in the electrical and hybrid vehicle manufacturer's servicing manual and the requirements of occupational safety and health as well as that of environmental protection, safely process isolate and reinstate an electric and hybrid vehicle, including: <ul style="list-style-type: none"> <li>○ Capable of identifying the common faults in the components by visual inspection</li> <li>○ Testing and assess the operation and effectiveness of the component.</li> <li>○ Process isolate and reinstate</li> <li>○ Rectify typical system faults</li> </ul> </li> <li>• Conduct performance and safety inspection after the work and provide written report focusing on: <ul style="list-style-type: none"> <li>○ Abnormalities</li> <li>○ Measured data</li> <li>○ Major decisions</li> </ul> </li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is:</p> <ul style="list-style-type: none"> <li>• Capable of isolating and reinstating electric system of electric and hybrid vehicle safely according to the instructions in the electric and hybrid vehicle manufacturer's servicing manual and the relevant requirements on environment, occupational safety and health regulations; and</li> </ul>

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	<ul style="list-style-type: none"><li>• Capable of conducting basic tests on components upon completion of work and providing working report.</li></ul>
Remark	<p>The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed basic knowledge in operation of electric and hybrid vehicle.</p> <p>The major ordinance involved in this unit of competency is as follows:</p> <ul style="list-style-type: none"><li>• Relevant ordinances to the Road Traffic (Construction and Maintenance of vehicles) Regulations</li></ul>